

AMENDMENTS TO THE CLAIMS

1 and 2. (Canceled)

3. (Currently Amended) A program recording/reproducing apparatus, to which streaming signals of which a plurality of program signals are time-division-multiplexed based on an MPEG2-TS are inputted, for demultiplexing predetermined coded program signals out of the streaming signals and recording these program signals, said apparatus comprising:

an extracting unit that extracts program packets of the predetermined coded program signals from the streaming signals;

a recording unit that records the respective program packets and a discarded packet count corresponding to the number of packets discarded between two consecutively recorded program packets;

a reading unit that reads the coded program signals out of said recording unit;
and

a speed converting unit that outputs the coded program signals read out by said reading unit after inserting null packets corresponding to the discarded packet count in between the two consecutive program packets,

wherein said recording unit records one control packet structured in the same format as the program packet as substituted for discarded packet, thereby recording a

discarded packet count of the packets discarded between two consecutive program packets.

4. (Previously Presented) A program recording/reproducing apparatus according to claim 3, further comprising:

a speed detecting unit that detects a speed of the streaming signals based on the number of packets contained per unit time when receiving the streaming signals,

wherein said speed detecting unit outputs the program signals at the speed detected.

5. (Previously Presented) A program recording/reproducing apparatus according to claim 3, further comprising:

a speed detecting unit that detects, during a reproducing process, a speed of the streaming signals on the basis of time management information contained in the streaming signals,

wherein said speed converting unit outputs the coded program signals at the speed detected.

6. (Canceled)

7. (Previously Presented) A program recording/reproducing apparatus according to claim 3, wherein said recording unit records a discarded packet count of the packets discarded between two consecutive program packets at every interval therebetween, thereby recording a discarded packet count of the packets discarded between two consecutive program packets.

8. (Currently Amended) A program recording/reproducing apparatus according to claim 3, to which streaming signals of which a plurality of program signals are time-division-multiplexed based on an MPEG2-TS are inputted, for demultiplexing predetermined coded program signals out of the streaming signals and recording these program signals, said apparatus comprising:

an extracting unit that extracts program packets of the predetermined coded program signals from the streaming signals;

a recording unit that records the respective program packets and a discarded packet count corresponding to the number of packets discarded between two consecutively recorded program packets;

a reading unit that reads the coded program signals out of said recording unit;
and

a speed converting unit that outputs the coded program signals read out by said reading unit after inserting null packets corresponding to the discarded packet count in between the two consecutive program packets, wherein said recording unit records a

stream management packet as a first recording packet of the predetermined coded program signal.

9. (Previously Presented) A program recording/reproducing apparatus according to claim 8, wherein said recording unit records a program packet containing time management information after the stream management packet, and subsequently records an intra frame coded program packet.

10. (Previously Presented) A program recording/reproducing apparatus according to claim 3, wherein said recording unit records each program packet and the discarded packet count of the packets discarded between the two consecutive program packets on a magnetic tape, a magnetic disk, or an optical disk.

11. (Currently Amended) A method of recording and reproducing predetermined program signal packets that have been time-division-multiplexed with a plurality of other program signal packets into a streaming multiplexed signal, the method comprising:
extracting the predetermined program signal packets from the streaming signal;
discarding other program signal packets in the streaming signal;
recording the extracted predetermined program signal packets and a count of the number of discarded packets between each extracted packet on a recording media;

reading the predetermined program signal packets and the discarded packet count from the recording media;

generating null packets corresponding to the discarded packet count; and

outputting the predetermined program signal packets after inserting the generated null packets corresponding to the discarded packet count between nonconsecutive program signal packets, wherein the discarded packet count is recorded in a control packet structured in the same format as a program packet.

12. (Canceled)

13. (Previously Presented) A method for recording and reproducing predetermined program packets according to claim 11, further comprising:

recording a count of the number of discarded packets between nonconsecutive extracted packets at every interval there between.